

A Project on Online Engineers Booking System

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Abstract- *The proposed paper aims to develop an innovative online platform for engineers' reservation, facilitating the seamless booking of engineering professionals across various fields. The website will serve as a centralized hub where individuals and organizations can easily locate, browse and reserve engineers for specific projects or consultations. Leveraging user-friendly interfaces, advanced search functionalities and comprehensive profiles, the platform will empower users to efficiently find and book engineers based on expertise, availability, location and project requirements. Additionally, the website will incorporate secure payment gateways, scheduling features, and real-time communication tools to streamline the reservation process and enhance user experience. Through this platform, both engineers and clients will benefit from a convenient, transparent, and reliable system for managing engineering services and collaborations. The Online Engineers Reservation Website presents a transformative solution for the efficient and user-friendly booking of engineering professionals across diverse disciplines. This platform aims to bridge gap between skilled engineers and clients seeking their expertise, fostering a seamless and dynamic collaboration process. Users can navigate an intuitive interface to browse profiles of experienced engineers, explore their skill sets, and make reservations tailored to their project requirements. The website prioritizes simplicity and accessibility, enabling clients to easily schedule appointments, meetings, or project consultations with the desired engineer. Robust filtering options and a comprehensive search mechanism ensure that users can quickly find the right professionals for their specific needs. Moreover, the platform incorporates features such as real-time availability updates, secure payment processing, and a feedback system, enhancing transparency and trust between engineers and clients. By leveraging technology to streamline the reservations process, this website optimizes the connection between demand and supply in the engineering services.*

I. INTRODUCTION

Introducing In a world where technical expertise is in high demand, online engineers' reservation portal is poised to revolutionize how individuals and businesses connect with skilled engineers. Our platform serves as a centralized hub,

bridging the gap between engineering professionals and those seeking their services. Our user-friendly interface offers a comprehensive directory of specialized engineers across various fields, ensuring you find the perfect match for your project or consultation needs. Whether you require mechanical, electrical, software, civil, or any other engineering discipline, our platform simplifies the process, empowering you to browse, select, and reserve appointments effortlessly. Designed with user convenience in mind, online engineers' reservation offers a seamless and intuitive reservation system, allowing users to effortlessly browse through a diverse array of engineering disciplines and book appointments with qualified experts. Whether it's for consultation, project collaboration, or specialized services, our platform simplifies the process, making access to engineering talent more accessible than ever before. Through cutting-edge technology and a commitment to user satisfaction, online engineers' reservation prioritizes security, reliability, and efficiency. Our goal is to empower both engineers, enabling them to showcase their skills and expertise, and clients, providing them with a reliable resource to find the right engineering solutions for their needs. Join us in revolutionizing the way engineering services are accessed and utilized. Explore, connect, and reserve your engineering expert today with online engineers' reservation.

II. EXISTING SYSTEM

Essentially, online booking systems offer a way for customers to book a service. They can even pay for that service online through your website too. The more advanced software will allow clients to book via social media and on their cell phones. This means that people can book from anywhere at any time. This makes booking appointments so much easier. For people to go through with their intention to book, the booking system itself is the first hurdle. Online booking systems should be easy to use for the company but also for the customer. It should be user friendly with clear steps. On the business end, they should be easy for staff to manage. This way, owners can view what appointments are coming up and manage staff time. Existing applications offer features such as pitch correction, how users engage with music and refine their vocal skills.

2.1 Key issues

1. **Matching Engineers with Clients:** The process of matching available engineers with clients' specific needs is often manual and time-consuming, resulting in delays and missed opportunities.

2. **Scheduling Conflicts:** Engineers may face scheduling conflicts due to overlapping appointments, leading to difficulties in accommodating clients' preferred time slots and potentially impacting project timelines.

3. **Lack of Real-Time Updates:** Existing booking systems may not provide real-time updates on engineer availability or project status, causing uncertainty and inconvenience for both parties.

4. **Limited Flexibility:** Clients may require flexibility in scheduling appointments or making changes to bookings, but current systems may lack the necessary features to accommodate such requests efficiently.

5. **Poor User Experience:** Clunky interfaces and cumbersome booking processes can deter clients from using the platform, leading to a loss of business opportunities for engineers.

6. **Ineffective Communication:** Communication breakdowns between engineers and clients regarding project details, requirements, or scheduling changes can lead to misunderstandings and dissatisfaction potential in a sustainable, inclusive manner.

2.2 Objectives

- Enhanced Accessibility
- Diverse Engineer Pool
- Efficient Communication
- Reliable and Verified Profiles
- Flexible Scheduling
- Community Engagement.

2.3 Scope

The paper aims to holistically address the escalating demand for engineering talent within various industries. It involves an in-depth analysis of current industry trends, skill gaps, and market needs to identify specific domains requiring engineering expertise. This includes sourcing engineers from diverse channels, fostering skill development through targeted programs, and creating an environment conducive to retaining top engineering talent. Through a systematic approach encompassing needs assessment, talent acquisition strategies,

skill development initiatives, and fostering a collaborative environment, this project equips business owners with actionable insights to effectively manage the demand for engineers. By implementing these strategies, businesses can not only meet the immediate demand for engineering expertise but also create sustainable pathways for continued innovation and success in an ever-evolving market landscape. Additionally, the project emphasizes the importance of interdisciplinary collaboration. It encourages the integration of engineering teams with other departments to foster innovation, encourage diverse perspectives, and develop comprehensive solutions to complex challenges.

III. SOFTWARE REQUIREMENTS

3.1 Programming Language

JavaScript: Almost inevitable for any web application, JavaScript is used for client-side functionality and interaction.

HTML: HTML is a markup language that defines the structure of your content. HTML consists of a series of elements, which you use to enclose, or wrap, different parts of the content to make it appear a certain way, or act a certain way. The enclosing tags can make a word or image hyperlink to somewhere else, can italicize words, can make the font bigger or smaller, and so on

CSS: CSS (Cascading Style Sheets) allows you to create great-looking web pages. By background properties like colors, fonts, alignments, cards, size, images etc.

Python: Often used for back-end development due to its versatility and the availability of frameworks like Django and Flask. latest language features and enhancements, ensuring compatibility and future-proofing the codebase.

3.2 System Requirements

- Visual studio code (anything can use)
- HTML
- CSS
- JAVASCRIPT
- PYTHON
- TKINTER

VS CODE (VISUAL STUDIO):

Visual Studio Code (VS Code) is a popular and powerful code editor developed by Microsoft. It is a free, open-source, cross-platform editor designed for web and software development, supporting a wide range of programming languages. VS Code

is widely used by developers due to its extensive features, customizability, and a vast ecosystem of extensions.

HTML:

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CSS:

CSS (Cascading Style Sheets) allows you to create great-looking web pages. By background properties like colors, fonts, alignments, cards, size, images etc.

JAVA SCRIPT:

JavaScript is a high-level, dynamic, interpreted programming language primarily used to create interactive effects within web browsers. Developed by Netscape, it was initially called Live Script but later renamed JavaScript.

3.4 System Integration and Testing

Integration and testing for an online engineers booking system involves several key steps to ensure seamless functionality and reliability. Here's a breakdown of the process:

1. Integration Planning:

- Identify all the components and systems that need to be integrated into the booking system, such as user authentication, payment gateways, scheduling algorithms, and notification systems.
- Define the interfaces and protocols for communication between different components.
- Develop an integration plan outlining the sequence of integration tasks and dependencies.

2. API Integration:

- Integrate the booking system with external APIs or services, such as map services for location-based searches or third-party calendar systems for scheduling.
- Ensure that APIs are properly authenticated and that data exchange follows security best practices.

3. Database Integration:

- Integrate the booking system with databases for storing user information, booking records, and other relevant data.
- Verify that data synchronization between the booking system and databases is accurate and consistent.

4. User Interface Integration:

- Integrate the booking system's user interface with frontend components, including web pages, mobile apps, and other user-facing interfaces.
- Conduct usability testing to ensure that the user interface is intuitive and responsive across different devices and screen sizes.

5. Functional Testing:

- Test the booking system's functionality to ensure that it meets the specified requirements.
- Conduct end-to-end testing of booking workflows, including searching for engineers, making bookings, modifying or canceling bookings, and receiving notifications.
- Validate that all system interactions, such as email notifications and payment processing, are functioning correctly.

6. Performance Testing:

- Measure the performance of the booking system under various load conditions, including peak usage periods.
- Identify and address any performance bottlenecks, such as slow response times or resource exhaustion.

7. Security Testing:

- Conduct security testing to identify and address vulnerabilities, such as SQL injection, cross-site scripting (XSS), or authentication flaws.
- Verify that sensitive data, such as user credentials and payment information, is properly encrypted and protected.

8. Compatibility Testing:

- Test the booking system across different web browsers, operating systems, and devices to ensure compatibility.
- Verify that the system functions correctly on popular browsers such as Chrome, Firefox, Safari, and Edge.

9. Regression Testing:

- Perform regression testing after each integration or code change to ensure that existing functionality has not been affected.

- Use automated testing tools to streamline the regression testing process and detect any regressions quickly.

10. User Acceptance Testing (UAT):

- Involve end-users or stakeholders in UAT to validate that the booking system meets their needs and expectations.

- Gather feedback from users and incorporate any necessary changes or enhancements before the system goes live.

By following these steps and conducting thorough integration and testing, you can ensure that your online engineers booking system is robust, reliable, and ready for deployment.

3.5 Deployment and Maintenances

1. Infrastructure Setup:

- Choose a reliable hosting provider or cloud platform (e.g., AWS, Google Cloud, Microsoft Azure).

- Set up servers, databases, and other necessary infrastructure components.

- Configure networking, security groups, and firewall rules to restrict access and enhance security.

2. Code Deployment:

- Use version control systems (e.g., Git) to manage your codebase.

- Set up Continuous Integration/Continuous Deployment (CI/CD) pipelines to automate the build and deployment process.

- Deploy the application code to your servers or cloud platform using deployment tools like Jenkins, Travis CI, or GitLab CI.

3. Database Migration:

- If necessary, perform database schema migrations using migration tools provided by your chosen database technology (e.g., Django migrations for PostgreSQL).

- Ensure that database backups are in place to prevent data loss during migrations.

4. Monitoring and Logging:

- Implement monitoring solutions (e.g., Prometheus, Grafana) to track system health, performance metrics, and application logs.

- Set up alerts for critical events such as server downtime, high CPU usage, or database connection failures.

5. Load Balancing and Scaling:

- Configure load balancers to distribute incoming traffic across multiple servers for improved performance and reliability.

- Implement auto-scaling mechanisms to automatically adjust server capacity based on traffic demand.

6. Security Updates:

- Regularly apply security patches and updates to the operating system, web server, database server, and other software components.

- Perform security audits and vulnerability scans to identify and address potential security risks.

7. Backup and Disaster Recovery:

- Implement regular backups of your application data and configurations to prevent data loss in case of hardware failures, human errors, or security breaches.

- Test your backup and disaster recovery procedures periodically to ensure their effectiveness.

8. Performance Optimization:

- Monitor system performance and identify bottlenecks using tools like New Relic, Datadog, or custom monitoring scripts.

- Optimize database queries, caching strategies, and server configurations to improve performance and reduce response times.

9. Scalability Planning:

- Regularly review your application's scalability requirements and adjust server capacity or architecture as needed to accommodate growing traffic and user base.

10. User Support and Bug Fixes:

- Provide timely support to users and address any issues or bugs reported through customer feedback channels.

- Prioritize and fix bugs based on severity and impact on the user experience.

11. Regulatory Compliance:

- Ensure compliance with relevant regulations and standards (e.g., GDPR, HIPAA) by implementing appropriate data protection and privacy measures.

12. Documentation and Knowledge Sharing:

- Maintain up-to-date documentation for system architecture, deployment procedures, troubleshooting guides, and best practices.

- Foster a culture of knowledge sharing within your team to improve collaboration and facilitate onboarding of new team members.

These deployment and maintenance best practices, you can ensure the smooth operation and long-term success of your online engineers booking system.

IV. IDEATE

4.1 Proposed System

Introducing our proposed system for an Online Engineers Reservation Website, a cutting-edge platform poised to redefine the way engineering expertise is accessed. This innovative website facilitates seamless connections between clients and engineers across diverse disciplines. Users can effortlessly browse through a comprehensive database of skilled professionals, view their portfolios, and schedule appointments with ease. The platform prioritizes user-friendly navigation, ensuring a hassle-free experience for both engineers and clients. Robust reservation features, real-time availability updates, and secure payment options enhance the efficiency of the booking process. Our goal is to create a dynamic online ecosystem that fosters collaboration, promotes efficiency, and elevates the standard of engineer-client engagements. Embrace the future of engineering reservations with our forward-thinking platform.

4.2 Advantages

An online engineers booking system offers several advantages over traditional offline methods, both for the service providers (engineers) and the customers.

For Service Providers (Engineers):

1. **Efficient Time Management:** Engineers can manage their schedules more effectively by easily viewing and updating their availability through the online booking system. This reduces time spent on manual scheduling and administrative tasks.
2. **Increased Visibility:** Engineers can showcase their skills, expertise, and availability to a larger audience through the

online platform, potentially attracting more clients and opportunities.

3. **Flexible Work Environment:** With the ability to set their availability and accept bookings based on their preferences, engineers have greater control over their work schedules and can enjoy a more flexible work-life balance.
4. **Reduced Administrative Overhead:** Automating booking, invoicing, and payment processes streamlines administrative tasks for engineers, allowing them to focus more on their core expertise and client projects.
5. **Enhanced Communication:** The online platform facilitates communication between engineers and clients through messaging features, ensuring clear and timely communication regarding project details, requirements, and scheduling.

For Customers:

1. **Convenience:** Customers can easily browse available engineers, view their profiles, and book appointments at their preferred time and location, all from the comfort of their own homes or offices.
2. **Access to a Diverse Pool of Talent:** Online booking systems provide customers with access to a wide range of engineers with various specialties and expertise, enabling them to find the best match for their specific needs.
3. **Transparency:** Customers can view engineer profiles, ratings, and reviews from previous clients, helping them make informed decisions when selecting a service provider.
4. **24/7 Availability:** Unlike traditional booking methods that are limited to business hours, online booking systems allow customers to book appointments at any time of the day or night, providing greater flexibility and accessibility.
5. **Automated Reminders:** Online booking systems can send automated reminders to customers about upcoming appointments, reducing the likelihood of missed appointments and improving overall customer satisfaction.
6. **Secure Payment Processing:** Customers can make secure online payments for services rendered through the booking platform, offering added convenience and peace of mind.

V. RESULT AND SCREENSHOTS

VI. CONCLUSION

5.1 Input

```

1 import tkinter as tk
2 from tkinter import *
3 from tkinter import ttk, messagebox
4 import sqlite3
5
6 class LoginWindow:
7     def __init__(self, root):
8         self.root = root
9         self.root.title("Login")
10        self.root.geometry("925x500+300+200")
11        self.root.config(bg="#333")
12        self.root.overridedirect(True)
13        self.img = PhotoImage(file="C:\\Users\\vijay\\OneDrive\\Desktop\\EMMS\\EMMS\\login.png")
14        self.laelling = tk.Label(self.root, image=self.img, bg="#333").place(x=50, y=50)
15        self.aframe = tk.Frame(self.root, width=350, height=350, bg="#333").place(x=480, y=70)
16        self.login = tk.Label(self.aframe, text="Login", foreground="white", background="black",
17                             font=("Calibri", 30, "bold")).place(x=500, y=70)
18        self.label_username = tk.Label(self.aframe, text="Username:", font=("Calibri", 12, "bold"),
19                                     foreground="white", background="black").place(x=560, y=140)
20
21        self.entry_username = tk.Entry(self.root, text="username")
22        self.entry_username.insert(0, "admin")
23        self.entry_username.place(x=640, y=140)
24

```

Fig 1: Input Page 1

```

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23

```

Fig 2: Input Page 2

5.2 Output

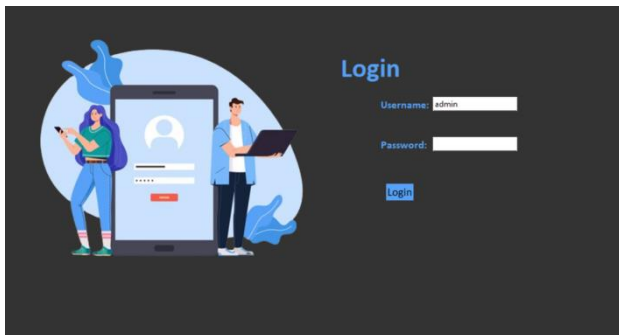


Fig 3: Output Page-1

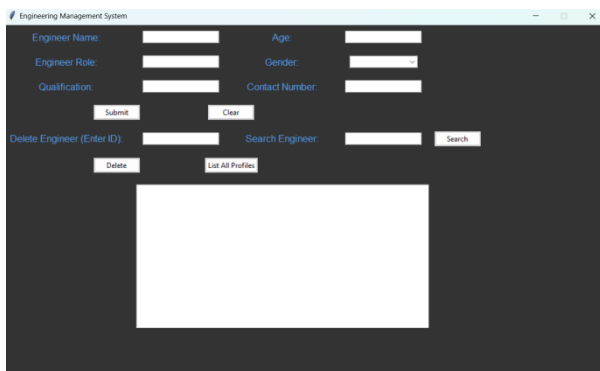


Fig 4: Output Page-2

In conclusion, the development of an online engineers booking system represents a significant advancement in streamlining processes, optimizing efficiency, and enhancing customer satisfaction within the engineering industry. By harnessing the power of technology, this system offers a user-friendly platform for clients to effortlessly schedule engineering services, manage appointments, and access relevant information in real-time. The implementation of such a system brings numerous benefits to both engineering firms and their clients. For engineering firms, it offers improved resource allocation, better schedule management, and increased operational efficiency. With automated booking processes and centralized data management, firms can optimize their workforce utilization and reduce administrative burdens. Moreover, the system enables firms to provide better customer service by offering convenient booking options and timely updates on service availability. On the client side, the online booking system provides unparalleled convenience and accessibility. Clients can easily browse available engineering services, select suitable appointment slots, and make bookings at their convenience, without the need for lengthy phone calls or email exchanges. Real-time availability updates ensure transparency and enable clients to plan their schedules accordingly. Additionally, features such as automated reminders and notifications enhance the overall customer experience, leading to higher satisfaction and loyalty. Furthermore, the online engineers booking system contributes to sustainability efforts by reducing paper usage and minimizing carbon emissions associated with traditional appointment booking methods. By embracing digital solutions, engineering firms demonstrate their commitment to environmental responsibility. In essence, the online engineers booking system represents a transformative tool that empowers both engineering firms and their clients to streamline processes, enhance efficiency, and deliver exceptional service. As technology continues to evolve, embracing innovative solutions like this booking system will be essential for staying competitive and meeting the evolving needs of the industry and its stakeholders. Through its seamless integration of digital technology, this system offers a comprehensive solution to the perennial challenges of scheduling and coordination within the industry. By providing a centralized platform accessible to engineers and clients alike, it facilitates a smoother, more transparent, and efficient process from booking to service delivery. Furthermore, by empowering engineers to manage their schedules more effectively and allocate resources with precision, the system maximizes productivity and optimizes operational efficiency. In development and implementation of an online engineers booking system represent a significant advancement in

streamlining and optimizing the process of scheduling engineering services. By leveraging digital platforms, this system offers unparalleled convenience and efficiency for both engineers and clients alike. Through features such as real-time availability, automated notifications, and seamless communication channels, it fosters transparency, enhances productivity, and reduces the likelihood of scheduling conflicts. Moreover, it empowers engineers to manage their schedules effectively, prioritize tasks, and allocate resources more efficiently. Overall, the online engineers booking system not only revolutionizes the way engineering services are accessed and managed but also sets a new standard for professionalism and customer satisfaction in the industry.

VII. FUTURE SCOPE

The future scope of an online engineers booking system is vast and promising, poised to revolutionize the engineering industry in numerous ways. The scope for an online engineers booking system is promising, with numerous opportunities for expansion and enhancement. As technology continues to evolve, the potential avenues for growth and development are:

Enhanced User Experience: Investing in user interface (UI) and user experience (UX) improvements can make the booking process more intuitive and seamless. Introducing features such as real-time availability updates, personalized recommendations, and interactive booking calendars can enhance user satisfaction and retention.

Mobile Optimization: With the increasing reliance on mobile devices, optimizing the booking system for mobile platforms is essential. Developing dedicated mobile applications or ensuring responsive design for mobile browsers can cater to users who prefer to book services on the go.

Integration with Emerging Technologies: Integrating the booking system with emerging technologies like artificial intelligence (AI) and machine learning (ML) can unlock new capabilities. AI-powered chatbots can assist users with inquiries and bookings, while ML algorithms can analyze booking patterns to optimize resource allocation and scheduling.

Expansion of Services: Diversifying the range of services available for booking can attract a broader customer base. This could include offering specialized engineering services, partnering with third-party providers for complementary services, or expanding into related fields such as maintenance, repair, and operations (MRO).

Global Reach: Scaling the booking system to cater to a global audience opens up opportunities for expansion into new markets. This may involve localization efforts to accommodate different languages, currencies, and cultural preferences, as well as compliance with international regulations and standards.

Integration with IoT Devices: Leveraging the Internet of Things (IoT) to connect booking systems with IoT-enabled devices can enable automated scheduling and remote monitoring of engineering services. For example, IoT sensors installed in equipment can detect maintenance needs and automatically schedule service appointments through the booking system. **Data Analytics and Insights:** Utilizing data analytics tools to extract actionable insights from booking data can drive informed decision-making and strategic planning. Analyzing trends, customer preferences, and booking patterns can inform marketing strategies, pricing optimization, and service offerings.

Global Accessibility: As the world becomes increasingly interconnected, the online engineers booking system has the potential to transcend geographical boundaries. With multilingual support and localization features, it can cater to clients and engineers across different regions, facilitating international collaborations and expanding market reach.

Integration with Emerging Technologies: The integration of emerging technologies such as artificial intelligence (AI), machine learning (ML), and the Internet of Things (IoT) holds immense potential for enhancing the capabilities of the booking system. AI-driven algorithms can analyze past booking patterns to predict future demand, optimize scheduling, and recommend suitable engineers for specific tasks. IoT-enabled devices can provide real-time monitoring and data collection, enabling proactive maintenance and efficient resource allocation.

Enhanced Customization and Personalization: Future iterations of the booking system can incorporate advanced customization and personalization features to cater to the unique preferences and requirements of clients and engineers. This could include tailored service packages, personalized recommendations based on past interactions, and customizable user interfaces to accommodate diverse user preferences.

Ecosystem Integration: The online engineers booking system can evolve into a comprehensive ecosystem by integrating with other relevant platforms and services within the engineering industry. This could involve seamless integration with project management tools, accounting software, and regulatory compliance platforms to provide end-to-end solutions for engineering firms and clients.

Expansion into New Verticals: While the current focus may be on traditional engineering disciplines such as civil, mechanical, and electrical engineering, the online booking system can expand into new verticals and niche markets. This could include emerging fields such as renewable energy, sustainable infrastructure, and biotechnology, catering to the evolving needs of a rapidly changing world.

[19] www.analyticsinsight.net

Continuous Improvement and Innovation: As technology advances and user feedback is incorporated, the online engineers booking system will undergo continuous improvement and innovation. This could involve the development of new features, optimization of existing functionalities, and integration of cutting-edge technologies to stay ahead of the curve and maintain its competitive edge in the market.

Overall, the future scope of the online engineers booking system is characterized by innovation, adaptability, and a commitment to enhancing efficiency and productivity within the engineering industry. As it continues to evolve and mature, it has the potential to redefine the way engineering services are accessed, delivered, and experienced in the years to come. The online engineers booking system is vast, with opportunities for innovation, expansion, and optimization across various dimensions. By staying abreast of technological advancements and evolving customer needs, businesses can position themselves for success in this dynamic and competitive landscape.

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